

Name _____

FINDING SPIRIT STUDENT ANSWER SHEET

After working with each of the images in the Finding Spirit activity, please put your answers on this sheet

Image #1 Answers

Actual Distance Between Craters in Image #1:	_____ 593 _____	m
Measured Distance Between Craters in Image #1:	_____	mm
Scale of Image #1 = Actual / Measured =	_____	m/mm

Actual Range from crater #1 to <i>Spirit</i> in Image #1:	_____ 490 _____	m
Measured Range in Image #1 = Actual / Scale of Image #1:	_____	mm
Bearing to <i>Spirit</i> in Image #1 (NOW FIND SPIRIT!):	_____ 270 _____	degrees

Image #2 Answers

Actual Distance Between Two Largest Craters in Image #1:	_____	m
Measured Distance Between Craters in Image #2 (Circle them and measure!):	_____	mm
Scale of Image #2 (Actual Distance / Measured Distance):	_____	m/mm

Actual Range from Largest Crater in Image #1 to <i>Spirit</i> :	_____	m
Measured Range in Image #2 (Actual Range / Scale of Image #2):	_____	mm
Bearing from Crater in Image #1 to <i>Spirit</i> (NOW FIND SPIRIT!):	_____	degrees

Measured Distance Between Two Largest Craters in Image #2 (Circle and measure!):	_____	mm
Actual Distance (Measured Distance x Scale of Image #2):	_____	m

Measured Range to <i>Spirit</i> from Largest Crater in Image #2 (Measure it!):	_____	mm
Actual Range (Measured Range x Scale of Image #2) to <i>Spirit</i> :	_____	m
Bearing to <i>Spirit</i> from Largest Crater in Image #2 (Measure it!):	_____	degrees

Step 1: Find the
Scale of the
Current Image

Step 2: Find Spirit
In the Current
Image

Step 3: Find Actual
Dist. Between Two
Largest Craters

Step 4: Find Range
& Bearing to Spirit
From Largest Crater

Image #3 Answers

Actual Distance Between Two Largest Craters in Image #2:	_____ m
Measured Distance Between Craters in Image #3 (Circle them and measure!):	_____ mm
Scale of Image #3 (Actual Distance / Measured Distance):	_____ m/mm

Actual Range from Largest Crater in Image #2 to <i>Spirit</i> :	_____ m
Measured Range in Image #3 (Actual Range / Scale of Image #3):	_____ mm
Bearing from Crater in Image #2 to <i>Spirit</i> (NOW FIND SPIRIT!):	_____ degrees

Measured Distance Between Two Largest Craters in Image #3 (Circle and measure!):	_____ mm
Actual Distance (Measured Distance x Scale of Image #3):	_____ m

Measured Range to <i>Spirit</i> from Largest Crater in Image #3 (Measure it!):	_____ mm
Actual Range (Measured Range x Scale of Image #3) to <i>Spirit</i> :	_____ m
Bearing to <i>Spirit</i> from Largest Crater in Image #3 (Measure it!):	_____ degrees

Step 1: Find the Scale of the Current Image

Step 2: Find Spirit In the Current Image

Step 3: Find Actual Dist. Between Two Largest Craters

Step 4: Find Range & Bearing to Spirit From Largest Crater

Image #4 Answers

Actual Distance Between Two Largest Craters in Image #3:	_____ m
Measured Distance Between Craters in Image #4 (Circle them and measure!):	_____ mm
Scale of Image #4 (Actual Distance / Measured Distance):	_____ m/mm

Actual Range from Largest Crater in Image #3 to <i>Spirit</i> :	_____ m
Measured Range in Image #4 (Actual Range / Scale of Image #4):	_____ mm
Bearing from Crater in Image #3 to <i>Spirit</i> (NOW FIND SPIRIT!):	_____ degrees

Measured Distance Between Two Largest Craters in Image #4 (Circle and measure!):	_____ mm
Actual Distance (Measured Distance x Scale of Image #4):	_____ m

Measured Range to <i>Spirit</i> from Largest Crater in Image #4 (Measure it!):	_____ mm
Actual Range (Measured Range x Scale of Image #4) to <i>Spirit</i> :	_____ m
Bearing to <i>Spirit</i> from Largest Crater in Image #4 (Measure it!):	_____ degrees

Step 1: Find the Scale of the Current Image

Step 2: Find Spirit In the Current Image

Step 3: Find Actual Dist. Between Two Largest Craters

Step 4: Find Range & Bearing to Spirit From Largest Crater

Image #5 Answers

Actual Distance Between Two Largest Craters in Image #4: _____ m
Measured Distance Between Craters in Image #5 (**Circle them and measure!**): _____ mm
Scale of Image #5 (**Actual Distance / Measured Distance**): _____ m/mm

Actual Range from Largest Crater in Image #4 to *Spirit*: _____ m
Measured Range in Image #5 (**Actual Range / Scale of Image #5**): _____ mm
Bearing from Crater in Image #4 to *Spirit* (**NOW FIND SPIRIT!**): _____ degrees

Step 1: Find the
Scale of the
Current Image

Step 2: Find Spirit
In the Current
Image

WHERE IS SPIRIT?

Latitude: _____ degrees Longitude: _____ degrees